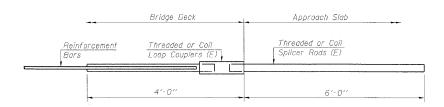
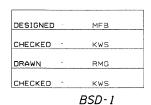
BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

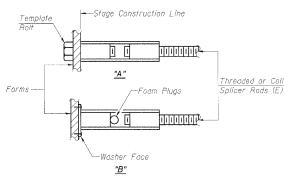


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strenath	= 12.3	kins -	tension

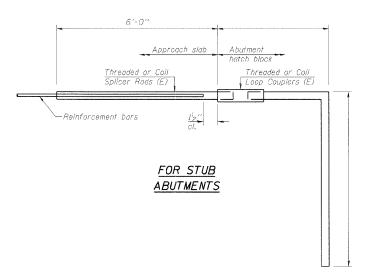


10-1-08



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Min.	Capacity = 23.0 kips - tension
Min	Pull-out Strength = 12.3 kips - tension

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 kei yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

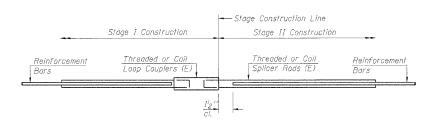
Minimum Capacity
(Tension in kips) = 1.25 x fy x A_t

Minimum *Poll-out Strength = 0.66 x fy x A_t
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A, = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES			
		Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension			
#4	1'-8"	14.7	7.9			
#5	2'-2"	23.0	12.3			
#6	2'-7"	33.1	17.4			
#7	3'-5"	45.1	23.8			
#8	#8 4'-6"		31.3			
#9	5′-9′′	75.0	39.6			
#10	7′-3′′	95.0	50.3			
#11	9'-0''	117.4	61.8			



STANDARD

Bar Size	No. Assemblies Required	Location Location	
#5	36	Deck	
#4	50	Approach Slab	
#5	92	Approach Slab	
#5	80	Approach Fooling	

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0111

alfred benesch & company benesch Surveyors - Planners - Surveyors - Planners - 205 North Michigan Avenue, Suite 2400 Chicago, Illinos 60601 312-565-0450 Job No. 10050

	F.A.I.	SECI	TON		COUNTY	TOTAL	SHEET
SHEET NO. 15	RIE.	RIE.		0001111	SHEETS	NO.	
	290 355	22(1, 1-1,	2&3)RS-	7	DUPAGE	546	460
28 SHEETS				CONTRACT	NO. 60G51		
	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT		